The customary practice is to deduct 5 per cent from the gold and from the silver values for refining charges. They are, perhaps, justi-fied in this, for the refinery sometimes pays the smelter only 95 per and for the silver at the current end, they say. market price.

only pay 10 cents a pound instead vantageous one. of 161 cents, the market price. The fining charges.

cent, leaving 2.7 per cent, or 54 a pound or \$5.40.

The smelter payment, therefore, is about like this:

Gold at \$20 per oz., less 5 per cent\$3.03	
Silver, 4 oz., at 58tc per oz.,	ı
less 5 per cent 2.28	ı
Copper, 4 per cent, less 1.3	ŀ
per cent, 54 pounds at 10c	ŀ
per pound 5.30	

Total\$11.48 Out of this must come smelter charges, \$6 per ton, wagon haul, \$4, and railway freights, \$1.50 per ton, making a total of \$11.50. As the smelter only paid at the rate of \$11.48 per ton, there is a net loss of

2 cents per ton.

Instead of making a profit of over \$800 on his shipment, therefore. the mine owner has suffered a loss of \$2, and that does not include the cost of mining.

smelters are a never ending source company will also sprinkle the of bitterness between smelter and the fine dust that makes travel mining men. On their face they wearisome to the tourist.-Journalappear to be almost a holdup. In Democrat.

\$8.23 a ton. Possibly he has 100 deducting 1.3 per cent from the tons of his first-class ore on the copper assays the smelter makes a dump, and he counts on getting a clear profit of about \$2.50 a ton. profit of over \$800 from the smelter. The deduction of 5 per cent from But the smelter would not pay the gold and the silver is a profit anything like \$19.73 for the ore. that varies with the richness of the The smelters have an arbitrary ore. In some cases these deductsystem of their own for settling, ions alone are enough to pay big profits for the smelter with a corresponding loss of dividends for the mine. Smelter men defend the tolls with the plea that if they did not get the tolls they would have to raise their smelting rates. It all cent of the gold at \$20 an ounce amounts to the same thing in the

This system of payment is prac-It is in paying for copper that ticed almost everywhere over the the smelter makes the biggest re- country. There is one conspicduction. An old Cornish custom is your exception. That is the smelto pay for no copper except the ter at Trail, B. C. The low grade amount in excess of 1.3 per cent. ores of that camp seldom carry If the ore does not assay more much more than 1.3 copper. Therethan 1.3 per cent the miner gets fore under the old system the minnothing at all for the copper. This eral owner would get nothing for custom was started when smelting the metal. The War Eagle Center was a primitive business, and a Star companies have made a congood deal of copper was lost in tract with the Trail smelter for matteing. Nowadays metalurgy 300,000 tons of ore. The smelter has been improved so that only does not deduct the usual 1.3 per about 3 per cent of 1 per cent of cent, but pays for 70 per cent of copper is lost. Nevertheless they the copper. It pays for it at the usually charge their old toll of 1.3 New York quotation, less 62 cents. per cent. In addition to this they That contract is a peculiarly ad-

In paying for the lead ore the deduction is alleged to cover the re- smelter makes a deduction of 10 per cent from the assay value of The assay value of ore carrying the lead, and pays at the market 4 per cent copper is \$13.20. The price. There is the usual deducsmelter, however, deducts 1.3 per tion of 5 per cent for silver and gold. Sometimes an ore carries pounds, for which it pays 10 cents both copper and lead. It is not practical to smelt both copper and lead from the same ore. One must be lost. Therefore it is usual to give up the metal which is the dess valuable. This makes a still further complication.

The smelting charge is usually based on what are called neutral ores-an ore in which the percentage of iron and silica is about equal. If the iron is in excess of the silica the smelter often pays 10 cents for each per cent of excess. —Metal Miner.

The Santa Fe railroad company is about to convert the locomotives between Needles and Seligman into oil burners. Tuesday a locomotive and crew were sent over the division to locate oil stations, and the big tanks will be put in as soon as possible after the report is in. The use of oil on the desert gives added comfort to the people who travel, as it will enable them to keep the These deductions made by the car windows open without getting covered with cinders and grit. The

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